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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/399,192	09/17/1999	JOHN WANKMUELLER	AP31994-0704	1972
75	90 09/29/2004		EXAMINER	
BAKER & BOTTS LLP 30 ROCKEFELLER PLAZA			BACKER, FIRMIN	
	NY 101120228		ART UNIT	PAPER NUMBER
			3621	
			DATE MAILED: 09/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)		
Office Action Summary		09/399,192	WANKMUELLER ET AL.		
		Examiner	Art Unit		
		Firmin Backer	3621		
	The MAILING DATE of this communication app				
Period fo					
THE I - External after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) vill apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	days will be considered timely. Tom the mailing date of this communication. TOMED (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed on 07.	luly 2004 .			
2a)⊠	This action is <b>FINAL</b> . 2b) Th	is action is non-final.			
3)□ Dispositi	Since this application is in condition for allowationsed in accordance with the practice under on of Claims				
4)⊠	Claim(s) <u>1-13,17-29,33-45,49 and 50</u> is/are pe	ending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	5) Claim(s) is/are allowed.				
6)⊠	6)⊠ Claim(s) <u>1-13, 17-29, 33-45, 49 and 50</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and/o	r election requirement.			
Applicati	on Papers				
9) 🗌 -	The specification is objected to by the Examine	г.			
10) 🗌 -	The drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the E	xaminer.		
_	Applicant may not request that any objection to the		· · · · · · · · · · · · · · · · · · ·		
11) 🗌 -	The proposed drawing correction filed on	• • • • • • • • • • • • • • • • • • • •	proved by the Examiner.		
	If approved, corrected drawings are required in rep	•			
•	The oath or declaration is objected to by the Ex	aminer.			
Priority u	nder 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
	<ol> <li>Copies of the certified copies of the prior application from the International Buree the attached detailed Office action for a list</li> </ol>	reau (PCT Rule 17.2(a)).	•		
14) <u></u> □ A	cknowledgment is made of a claim for domesti	priority under 35 U.S.C. § 119	9(e) (to a provisional application).		
	☐ The translation of the foreign language pro	• •			
Attachment	(s)				
2)  Notice 3)  Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)		
.S. Patent and Tr PTO-326 (Re		ion Summary	Part of Paper No. 11		

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### Response to Amendment

This is in response to an amendment file on July 7<sup>th</sup>, 2004 for letter for patent filed on September 17<sup>th</sup>, 2003 in which claims 1-50 were presented for examination. In the amendment, claim 1 has been amendment. Claims 1-13, 17-29, 33-45, 49 and 50 remain pending in the letter.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-13, 17-29, 33-45, 49 and 50 are rejected under 35 U.S.C. 102(b) as being anticipated by Bush et al (U.S. Patent No. 5,263,162).

Re claim 1: Bush et al discloses a method for generating identification data (deriving CGPIN), comprising providing (read) an ATM PIN (pin code) related to a first transaction type; and performing a cryptographic operation (perform encryption) upon an ATM PIN (PIN code) thereby generating (derive) a non ATM PIN (CGPIN) for use in a second transaction which is a non ATM transaction (comparing and matches) (see abstract, 5-7, column 3 lines 16-45, 4 lines 42-5 line 15).

Re claim 2: Bush et al further discloses that the step of performing a cryptographic operation comprises providing a conversion key (pseudo-random number) and using the conversion key to perform said cryptographic operation upon an ATM PIN (see column 2 lines 21-42).

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Re claim 3: Bush et al further discloses that the step of providing a conversion key comprises: providing conversion key derivation data (i.e., PAN) providing a conversion key derivation key and performing the cryptographic operation upon the conversion key derivation data and the conversion key derivation key (see column 2 lines 21-42).

Re claim 4: Bush et al further discloses that the step of performing a cryptographic operation upon the conversion key derivation data and the conversion key derivation key comprises using the conversion key derivation key to perform at least one cryptographic operation upon the conversion key derivation data (see column 2 lines 21-42).

Re claim 5: Bush et al further discloses that the conversion key derivation data includes an identification number that is associated with multiple accounts, and wherein at least one cryptographic operation using a secret key is performed to cryptographically process said conversion key derivation data to produce the conversion key (see column 2 lines 21-42).

Re claim 6: Bush further discloses that the step of performing a cryptographic operation comprises: providing cryptographically-computed data and performing an operation upon an ATM PIN and the cryptographically-computed data (see abstract, 5-7, column 3 lines 16-45, 4 lines 42-5 line 15).

Re claim 7: Bush further discloses that the step of providing cryptographically-computed data comprises: providing initial data and performing at least one cryptographic operation using a secret key upon the initial data thereby producing the cryptographically-computed data (see column 2 lines 21-42).

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Re claim 8: Bush disclose that the at least one cryptographic operation using a secret key comprises at least one of a DES-encryption and a DES-decryption (see abstract, 5-7, column 3 lines 16-45, 4 lines 42-5 line 15).

Re claim 9: Bush further discloses that least a portion of the initial data is obtained from at least a portion of an account number (see column 2 lines 21-42)

Re claims 10 and 13: Bush disclose that the operation upon an ATM PIN and the cryptographically-computed data comprises either a subtraction operation or an addition operation (see abstract, 5-7, column 3 lines 16-45, 4 lines 42-5 line 15)

Re claim 11 and 12: Bush further discloses that the step of providing cryptographically-computed data further comprises generating a cryptographically-computed number having a base corresponding to a base of a number representing the first set of identification data, wherein said cryptographically-computed number has a number of digits corresponding to a number of digits of said number representing an ATM PIN (see column 2 lines 21-42).

Re claims 17-29, 33-45, 49 and 50: The claimed system would have been inherent to perform the method disclosed by Bush et al as stated above. Therefore, they are rejected under the same rationale.

### Response to Arguments

3. Applicant's arguments filed July 7<sup>th</sup>, 2004 have been fully considered but they are not persuasive.

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Applicant argue that the prior art (Bush et al) fail to teach a PIN that is in a. connection with an authorization process of a single transaction which the user initiates by inserting his or her PIN. Examiner respectfully disagrees with Applicant's characterization of the prior art. Bush et al teach an invention to allow a remote central computer facility or an authorization terminal to validate a cardholder's identity through the use of a PIN code entered into a chip card by the cardholder at the time of the desired validation. As an example, when a waiter collects a user's credit and PIN card and the bill, the cardholder would have previously entered his PIN code using a keypad. The waiter would then process the credit card in the usual manner, but would also place the PIN Card in an authorization terminal. The authorization terminal scans the PIN Card for an account number which is sent off to a central computer. The central computer sends back a pseudo-random number which is used by the card to produce a CGIPIN. The central computer also produces a CGIPIN using a duplicate process. The authorization terminal sends the CGIPIN to the central computer. If the CGIPINs match, authorization is granted. Note that while the authorization terminal could make the comparison, for better security, the central computer should make the comparison. Additionally, note that the cardholder's PIN code never leaves the PIN Card. It is the CGIPIN, a number derived from the user's PIN code, a unique array matrix, and a constantly changing pseudorandom number generated by the central computer, that is transmitted by the PIN card.

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b. Applicant also argues that as of claims 6-13, Examiner looks to Konheim reference as a basis for the rejection. However, Examiner meant to look to Bush et al for

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the basis of rejection to claims 6-13. Examiner erroneously type Konheim in the paragraphs.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Firmin Backer whose telephone number is (703) 305-0624. The examiner can normally be reached on Mon-Thu 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (703) 305-9768. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Firmin Backer
Primary Examiner
Art Unit 3621

September 26, 2004